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ABSTRACT OF THE DISCLOSURE

a front substrate and a back substrate disposed to face each other. A pre-baking phosphor layer containing a phosphor and an organic binder is formed on at least one of surfaces of the front substrate and the back substrate that are to face each other. A sealing material that softens with heat is applied to the peripheral region of at least one of the surfaces of the front and back substrates that are to face each other. The front and back substrates are disposed to face each other in a stack. The front and back substrates are heated to burn out the organic binder while supplying a dry gas containing oxygen to an internal space that is formed between the front and back substrates.